Environmental Protection Agency

of the sulfur compounds obtained by adding the quantity existing as SO₂ to the quantity of SO₂ that would be obtained if all reduced sulfur compounds were converted to SO_2 (ppmv or kg/ dscm (lb/dscf)).

EThe sulfur emission rate expressed as elemental sulfur, kilograms per hour (kg/hr) [pounds per hour (lb/hr)], rounded to one decimal place.

RThe sulfur emission reduction efficiency achieved in percent, carried to one decimal

place.

SThe sulfur production rate, kilograms per hour (kg/hr) [pounds per hour (lb/hr)],

rounded to one decimal place.

XThe sulfur feed rate from the sweetening unit (i.e., the H_2S in the acid gas), expressed as sulfur, Mg/D(LT/D), rounded to one decimal place.

YThe sulfur content of the acid gas from the sweetening unit, expressed as mole percent H₂S (dry basis) rounded to one decimal

place. ZThe minimum required sulfur dioxide (SO_2) emission reduction efficiency, expressed as percent carried to one decimal place. Z_i refers to the reduction efficiency required at

the initial performance test. Z_c refers to the reduction efficiency required on a continuous basis after compliance with $Z_{i}\ has$ been demonstrated.

[50 FR 40160, Oct. 1, 1985, as amended at 65 FR 61773, Oct. 17, 2000]

§ 60.642 Standards for sulfur dioxide.

- (a) During the initial performance test required by §60.8(b), each owner or operator shall achieve at a minimum, an SO₂ emission reduction efficiency (Z_i) to be determined from Table 1 based on the sulfur feed rate (X) and the sulfur content of the acid gas (Y) of the affected facility.
- (b) After demonstrating compliance with the provisions of paragraph (a) of this section, the owner or operator shall achieve at a minimum, an SO₂ emission reduction efficiency (Z_c) to be determined from Table 2 based on the sulfur feed rate (X) and the sulfur content of the acid gas (Y) of the affected facility.

Table 1. REQUIRED MINIMUM INITIAL ${\rm SO_2}$ EMISSION REDUCTION EFFICIENCY (${\rm Z_1}$)

| H ₂ S content of acid gas (Y), % | Sulfur feed rate (X), LT/D | | | | | |
|---|-------------------------------|--|---|---------|--|--|
| | 2.0≦X≦5.0 | 5.0 <x≦15.0< th=""><th>15.0<x≨300.0< th=""><th>X>300.0</th></x≨300.0<></th></x≦15.0<> | 15.0 <x≨300.0< th=""><th>X>300.0</th></x≨300.0<> | X>300.0 | | |
| Y≧50 | 79.0 | 88.51X ^{0.0101} Y ^{0.0125} | | | | |
| | | or 99.8, whichever is smaller | | | | |
| 20≦Y<50 | 79.0 | 88.51x ^{0.0101} y | 0.0125 | 97.9 | | |
| | or 97.9, whichever is smaller | | | | | |
| 10≦Y<20 | 79.0 | 88.51X ^{0.0101} Y ^{0.0125} | 93.5 | 93.5 | | |
| | or 93.5, whichever is smaller | | | | | |
| Y<10 | 79.0 | 79.0 | 79.0 | 79.0 | | |

Table 2. REQUIRED MINIMUM ${\rm SO_2}$ EMISSION REDUCTION EFFICIENCY (${\rm Z_C}$)

| H ₂ S content of acid gas (Y), % | Sulfur feed rate (X), LT/D | | | | | |
|---|-------------------------------|--|---|---------|--|--|
| | 2.0≨X≦5.0 | 5.0 <x≦15.0</x | 15.0 <x≦300.0< th=""><th>X>300.0</th></x≦300.0<> | X>300.0 | | |
| Y≧50 | 74.0 | | | | | |
| | or 99.8, whichever is smaller | | | | | |
| 20≦Y<50 | 74.0 | 85.35X ^{0.0144} Y | 0.0128 | 97.5 | | |
| | or 97.5, whichever is smaller | | | | | |
| 10 ≤ Y<20 | 74.0 | 85.35x ^{0.0144} y ^{0.0128} | 90.8 | 90.8 | | |
| | | | | | | |
| Y<10 | 74.0 | 74.0 | 74.0 | 74.0 | | |

$\S 60.643$ Compliance provisions.

formance test as required by §60.8, the

(a)(1) To determine compliance with the standards for sulfur dioxide specified in $\S60.642(a)$, during the initial per-